20W DUAL OUTPUT

FEATURES

- Industry Standard Pin Out
- Low 8.5mm Profile
- 3.3V Output Available
- 1500VDC Input to Output Isolation (48V Versions)
- -25°C to +60°C Operating Temperature
- Remote On/Off Control
- Warranty 2 Years

ELECTRICAL SPECIFICATION

Model No.	Max Power	Input	Output 1		Output 2		Output 3	
			Volts	Amps	Volts	Amps	Volts	Amps
PM20-12D12	20W	12 VDC	+12V	0.83A	-12V	0.83A	N/A	N/A
PM20-12D15	20W	12 VDC	+15V	0.67A	-15V	0.67A	N/A	N/A
PM20-24D12	20W	24 VDC	+12V	0.83A	-12V	0.83A	N/A	N/A
PM20-24D15	20W	24 VDC	+15V	0.67A	-15V	0.67A	N/A	N/A
PM20-48D12	20W	48 VDC	+12V	0.83A	-12V	0.83A	N/A	N/A
PM20-48D15	20W	48 VDC	+15V	0.67A	-15V	0.67A	N/A	N/A

OUTLINE SPECIFICATION

Input

Input Voltage Range(s):	*12V nom - 9 to 18VDC*
	24V nom - 18 to 36VDC
	48V nom - 36 to 75VDC
Input Current (typical):	*12V nom - 3.0A*
	24V nom - 1.5A
	48V nom - 0.74A
Inrush Current♦1:	*<50A*
Input Line Disturbances:	*12V input - 25V for 100mS*
	24V input - 50V for 100mS
	48V input - 100V for 100mS

Output

Load Regulation♦2 (typical):	*3% per output*
Line Regulation♦3 (typical):	*0.2% per output*
Output Ripple♦4:	*25mV RMS, 100mV pk-pk*
Overvoltage Clamp Point Range♦5:	*28.0 to 30.0V at ± 12V nom O/P* *31.0 to 37.5V at ± 15V nom O/P*
Current Limit♦6:	*See notes*
Output Voltage Accuracy:	*±1.5%*
Output Voltage Adjust:	*±10% (across total output)*

Output continued

Temperature Coefficient:	*± 0.015%/°C*
Thermal Protection:	*None*
Remote Sense:	*Not Available*
Remote On/Off Control♦7:	*Logic 1 or Open Enables Unit* *Logic 0 or short shuts down* *Remote On/Off pin ref to Pin 2*
Series Operation:	*No*
Remote Voltage Programming:	*Possible*

Product Features

Efficiency (typical):	*79% for 12VI/P* *82% other models*
Operating Temperature:*	*-25°C to +60°C ambient for 24 & 48V I/P*** *(Derate to 0 Watts at 105°C)*
Storage Temperature:	*-40°C to +105°C*
Isolation Voltage (I/P-O/P)	
24V models:	*500VAC, 700VDC, 10MOhms*
48V models:	*900VAC, 1500VDC, 10MOhms*
Switching Frequency:	*350 kHz*
Size WxHxD:	*40.6 x 8.5 x 50.8 mm*
Weight:	*42.5g*

OUTLINE SPECIFICATION continued

Product Features Continued

** In forced air applications full output power can be maintained as long as the chassis temperature, as measured in the centre of the unit's label, is maintained at less than or equal to 100°C.*

***Consult factory for 12V input*

Safety Approvals†

UL1459, UL1950, BS6301, ETSI 300, Bellcore TR-SY-001003, CSA 22.2.234

EN41003, EN60950 and CE mark for LVD (48V I/P only required)

Consult factory for BABT approval.

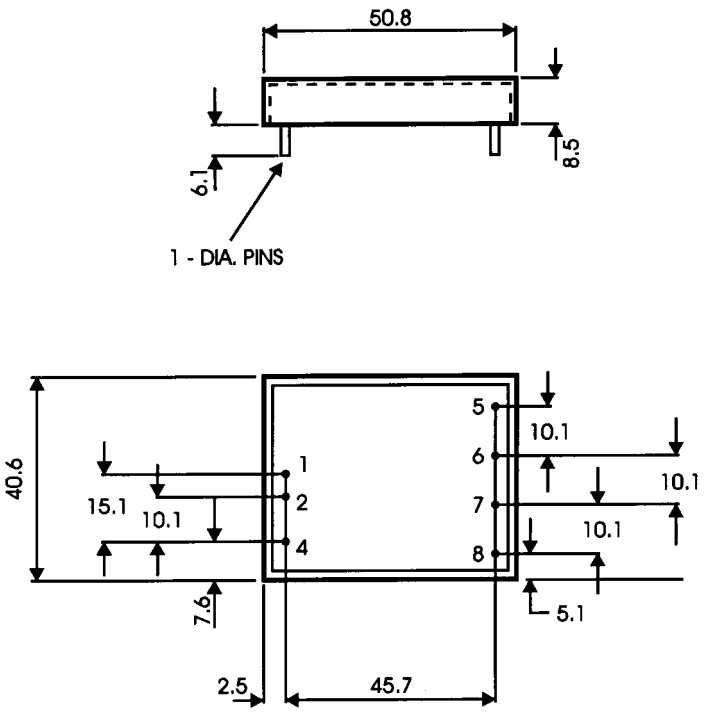
EMI (48V I/P)

ANSI 63.12- 1987 (Bellcore) with external filter

†Check with Technical Sales for current status of approvals.

DC

PHYSICAL SPECIFICATION



CONNECTION DETAILS

Pin 1	*+Vin*
Pin 2	*-Vin*
Pin 4	*ON/OFF*
Pin 5	*+Vo*
Pin 6	*COM*
Pin 7	*-Vo*
Pin 8	*TRIM*

♦NOTES

1 Inrush current limiting as specified by ETSI-300-132.

2 For output current changes between 10% and 100% of full load.

3 For input changes between minimum and maximum.

4 Differential mode and measured at the O/P terminals of the converter utilising the EIAZ method. All specifications reflect a 20MHz measurement bandwidth.

5 Overvoltage protection clamps the total output voltage at predetermined level in the event of an internal sensing circuit or feedback loop failure.

6 External overload protection, automatic electronic current limiting circuit limits the output current to a safe value. Units are capable of sustaining short circuited output indefinitely on main output of dual output models.
Auxiliary outputs of dual output models will sustain a short circuit output for 30 seconds minimum without damage.

7 To be opened on power up.